PATTERN CARD

BACKGROUND OF THE INVENTION

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4	The present invention relates to a pattern card, and more particularly a
5	pattern card on which a pattern or picture with a three-dimensional effect can

6 appear by easily removing printing ink on a base material.

2. Description of Related Art

A pattern or picture will appear on a pattern when a user removes partial material on the pattern card according to a predetermined design.

With reference to Fig. 7, a first conventional pattern card is composed of an aluminum or copper plate (60), and dark paint (61) coated on the aluminum or copper plate (60). When a user removes the dark paint (61) by a drawknife according to the predetermined design, a pattern or picture appears.

However, because there is a high level of adhesion between the dark paint (61) and the aluminum or copper plate (60), and the dark paint (61) has a high level of cohesion in itself, it is very difficult for the user to remove the dark paint (61). Furthermore, the pattern or picture only appears with a color of silver or copper after the aluminum or copper is removed, so the pattern card's decorative effect is monotonous and uninteresting.

As illustrated in Fig. 8, a second conventional pattern card is composed of a paper sheet (70), an aluminum or copper film (71), and dark printing ink (72) coated on the aluminum or copper film (71). Because there is a high level of adhesion between the dark printing ink (72) and the aluminum or copper film (71), and the dark painting ink (72) has a high level of cohesion in itself, this

- 1 pattern card has the same problems as mentioned above.
- With reference to Fig. 9, a third conventional pattern card is composed
- of a paper sheet (80), an aluminum or copper film (81), dark printing ink (82),
- 4 and picture printing ink (83) applied on the dark printing ink (82). Because there
- 5 are high levels of adhesion among the dark printing ink (82), the picture printing
- 6 ink (83) and the aluminum or copper film (81), and the dark printing ink (82) and
- 7 picture printing ink (83) have a high level of cohesion in themselves, this pattern
- 8 card has the same problems as mentioned above.
- 9 Therefore, the invention provides an improved pattern card to mitigate
- or obviate the aforementioned problems.

SUMMARY OF THE INVENTION

- The main objective of the present invention is to provide a pattern card
- on which a pattern or picture with a three-dimensional effect can appear by easily
- 14 removing printing ink on a base material.
- Other objectives, advantages and novel features of the invention will
- become more apparent from the following detailed description when taken in
- 17 conjunction with the accompanying drawings.

18 BRIEF DESCRIPTION OF THE DRAWINGS

- Fig. 1 is a top view of a pattern card in accordance with the present
- 20 invention;

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- Fig. 2 is a cross sectional view of a first embodiment of the pattern card
- 22 of the invention;
- Fig. 3 is a cross sectional view of a second embodiment of a base
- 24 material of the pattern card of the invention;

1	Fig. 4 is a cross sectional view of a third embodiment of a base material
2	of the pattern card of the invention;
3	Fig. 5 is a cross sectional view of a fourth embodiment of a base material
4	of the pattern card of the invention;
5	Fig. 6 is a cross sectional view of the fourth embodiment of the pattern
6	card of the invention;
7	Fig. 7 is a cross sectional view of a first conventional pattern card;
8	Fig. 8 is a cross sectional view of a second conventional pattern card;
9	and
10	Fig. 9 is a cross sectional view of a third conventional pattern card.
11	DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT
12	With reference to Figs. 1-2, a pattern card in accordance with the present
13	invention has a paper sheet (10). A color texture layer (20) with regular or
14	irregular patterns is printed on the paper sheet (10). The paper sheet (10) and the
15	color texture layer (20) constitute a base material (not numbered). A wax layer
16	(21) is formed on the color texture layer (20). A protection printing ink (22) is
17	coated on the wax layer (21), and a picture printing ink (23) is partially coated on
18	the protection printing ink (22) according to the designed picture's profile and
19	contour. Alternatively, the picture printing ink (23) can be randomly coated on
20	the protection printing ink (22) for a user to freely design the picture. Because
21	the wax layer (21) is between the protection printing ink (22) and picture printing
22	ink (23) to reduce the adhesion of the printing ink (22, 23), it is very easy for the
23	user to remove the printing ink (22, 23).

The protection printing ink (22) and picture printing ink (23) can be

- 1 mixed with wax in the proportion of 10% for reducing the cohesion of the
- 2 printing ink (22, 23), so the protection printing ink (22) and picture printing ink
- 3 (23) can be removed more easily.
- In use, the user removes the picture printing ink (23) by moving a
- 5 drawknife along the picture's profile and contour, and removes the protection
- 6 printing ink (22) as well, so the designed picture appears on the color texture
- 7 layer (20) with a three-dimensional effect The picture can be drawn as an animal
- 8 such as a hippo or dolphin etc., as shown in Fig. 1.
- The base material in accordance with the present invention has various 9 10 configurations. With reference to Fig. 3, the base material is composed of the 11 paper sheet (10) and the color texture layer (20). In another embodiment, as shown in Fig. 4, the base material is composed of the paper sheet (10) and a 12 13 metal film (24) such as aluminum or copper film. The wax layer (21), protection printing ink (22), and picture printing ink (23) can be in turn provided on the 14 metal film (24). The protection printing ink (22) and picture printing ink (23) 15 also can be mixed with wax in the proportion of 10%. When the protection 16 17 printing ink (22) and picture printing ink (23) are removed, the picture with
- metallic luster appears on the metal film (24). Alternatively, the picture printing
- ink (23) can be eliminated, and the user can freely draw on the protection
- 20 printing ink (22).
- With reference to Figs. 5-6, in a further embodiment, the base material is
- composed of the paper sheet (10), a vacuum plating layer (30), and a plastic film
- 23 (40). The wax layer (21), protection printing ink (22), and picture printing ink
- 24 (23) are in turn provided on the plastic film (40). The protection printing ink (22)

- 1 and picture printing ink (23) also can be mixed with wax in the proportion of
- 2 10%. When the protection printing ink (22) and picture printing ink (23) are
- 3 removed, the picture appears on the plastic film (24). Alternatively, the picture
- 4 printing ink (23) can be eliminated, and the user can freely draw on the
- 5 protection printing ink (22).
- The plastic film (40) can be a silver, gold, colorized or laser film formed
- 7 on the vacuum plating layer (30).
- 8 It is to be understood, however, that even though numerous
- 9 characteristics and advantages of the present invention have been set forth in the
- 10 foregoing description, together with details of the structure and function of the
- invention, the disclosure is illustrative only, and changes may be made in detail,
- especially in matters of shape, size, and arrangement of parts within the
- principles of the invention to the full extent indicated by the broad general
- meaning of the terms in which the appended claims are expressed.